APPENDIX E

Steel Loss Calculations

Constant (g/C)

Con :=
$$3.6 \left[\frac{(55.847)}{(2.96487)} \right] \qquad \left(\frac{1}{10^3} \right) \cdot 3600 = 3.6$$

BEAM 1 Con =
$$1.042 \times 10^{-3}$$

B1E1 :=
$$\int_{0}^{5138.4208} 100.2646 \exp(-0.0002738t) dt$$

$$B1E1 = 2.765 \times 10^5$$
 C

 $Con \cdot B1E1 = 288.085$

B1E2 :=
$$\int_{0}^{5138.4208} 104.57235 \cdot \exp(-0.0001922t) dt$$

$$B1E2 = 3.41410^5$$

$$Con \cdot B1E2 = 355.716$$

BEAM 2

B2E1 :=
$$\int_{0}^{5138.4208} 109.09371 \cdot \exp(-0.00040747t) dt$$

$$B2E1 = 2.347 \times 10^5$$

$$Con \cdot B2E1 = 244.566$$
 g

B2E2 :=
$$\int_{0}^{5138.4208} 106.64603 \exp(-0.00018825t) dt$$

$$B2E2 = 3.512 \times 10^5$$

$$Con-B2E2 = 365.874$$

BEAM 3

B3E1 :=
$$\int_{0}^{5138.4208} 115.148898 \exp(-0.00017982t) dt$$

$$B3E1 = 3.862 \times 10^5$$
 C

B3E2 :=
$$\int_{0}^{5138.4208} 107.9592 \exp(-0.00016802t) dt$$

$$B3E2 = 3.716 \times 10^5$$

$$Con \cdot B3E2 = 387.099$$

BEAM 4

B4E1 :=
$$\int_{0}^{5138.4208} 114.450087 \exp(-0.00019347t) dt$$

$$B4E1 = 3.727 \times 10^5$$
 C

$$Con \cdot B4E1 = 388.254$$

B4E2 :=
$$\int_{0}^{5138.4208} 123.723 \exp(-0.00022095t) dt$$

$$B4E2 = 3.8 \times 10^5$$
 3

$$Con \cdot B4E2 = 395.939$$

BEAM 5

B5E1 :=
$$\int_{0}^{5138.4208} 114.3122 \exp(-0.00018556t) dt$$

$$B5E1 = 3.786 \times 10^5 \,\mathrm{C}$$

$$Con \cdot B5E1 = 394.464 g$$

B5E2 :=
$$\int_{0}^{5138.4208} 118.23531 \exp(-0.000178155t) dt$$

$$B5E2 = 3.98 \times 10^{5} C$$

$$Con \cdot B5E2 = 414.626 g$$

APPENDIX F

Half-Cell Data & Contours

ite: 4/11/02 and 4/12/02

Date: Temperature:

Beam 1

Position/Point	-	2	3	4	5	9	7	8	6	9	7	12	Center
x-position	-		13	19	-	7	13	19	-	7	13	19	48
y-position	19.5	19.5	19.5 19.5 19.5 19.5	19.5	6	6	6	6	3	3	ဗ	3	19.5
SW													
ΝN													
SE	0.226		0.230 0.231 0.220 0.236	0.220	0.236	0.237	0.237 0.231 0.241 0.230 0.243 0.245 0.240	0.241	0.230	0.243	0.245	0.240	0.223
NE NE	0.233	0.241	0.234	0.229	0.310	0.247	0.247 0.233	0.227	0.250	0.243 (0.252	0.252 0.233	0.225

Beam 2

Position/Point	-	2	3	4	2	9	6 7	æ	6	10	10 11 12		Center
SW	0.229	0.229	0.231	0.220	0.229 0.229 0.231 0.220 0.258 0.243 0.238 0.234 0.250 0.241 0.235 0.231	0.243	0.238	0.234	0.250	0.241	0.235	0.231	0.165
NW	0.215 0.218 0.219 0.197 0.273 0.247 0.235 0.227 0.233 0.237 0.225 0.212	0.218	0.219	0.197	0.273	0.247	0.235	0.227	0.233	0.237	0.225	0.212	0.190
SE	0.207 0.221 0.206 0.213 0.215 0.219 0.212 0.214 0.179 0.204 0.226 0.226	0.221	0.206	0.213	0.215	0.219	0.212	0.214	0.179	0.204	0.226	0.226	0.165
NE	0.208	0.212	0.213	0.205	0.208 0.212 0.213 0.205 0.276 0.233 0.212 0.208 0.221 0.223 0.218 0.205	0.233	0.212	0.208	0.221	0.223	0.218	0.205	0.190

eam 3

				-									
Position/Point	-	2	3	4	5	9	7	æ	6	10	11	12	Center
SW													
MΝ			The second second		H.S. Higher								
SE	0.205	0.205 0.235 0.251 0.239 0.283 0.244 0.244 0.255 0.225 0.222 0.226 0.243	0.251	0.239	0.283	0.244	0.244	0.255	0.225	0.222	0.226	0.243	0.220
뮈	0.222	0.222 0.247 0.241 0	0.241	0.238	0.274	0.252	0.244	0.238 0.274 0.252 0.244 0.245 0.213 0.215 0.229	0.213	0.215	0.229	0.210	0.229

Position/Point	-	7	3 4	4	5	9	6 7	8	6	10	11	12	10 11 12 Center
SW	0.242	0.247	0.242 0.247 0.252 0.249 0.270 0.259 0.242 0.252 0.222 0.245 0.230 0.244 0.250	0.249	0.270	0.259	0.242	0.252	0.222	0.245	0.230	0.244	0.250
NW	0.184	0.206	0.206 0.211 0.197 0.214 0.211 0.218 0.230 0.184 0.199 0.208 0.211	0.197	0.214	0.211	0.218	0.230	0.184	0.199	0.208	0.211	0.250
SE	0.236	0.251	0.236 0.251 0.252 0.249 0.260 0.257 0.253 0.253 0.232 0.240 0.250 0.238 0.250	0.249	0.260	0.257	0.253	0.253	0.232	0.240	0.250	0.238	0.250
Ne.	0.201	0.218	0.201 0.218 0.210 0.217 0.224 0.221 0.223	0.217	0.224	0.221	0.223	0.220 0.191	0.191	0.190	0.190 0.193 0.221	0.221	0.250

Half-Cell Potential Measurements Date: 5/29/02 Temperature:

Beam 1

Position/Point	_	2	3	4	5	2 9	7	∞	6	10	1	12	9 10 11 12 Center
SW													
NW													
SE	0.094	0.089	0.062	0.036	0.176	0.132	0.118	0.114	0.202	0.146	0.141	0.126	0.094 [0.089[0.062]0.036]0.176 0.132 0.118 0.114 0.202 0.146 0.141 0.126 0.020
N.	0.111	0.089	0.066	0.047	0.239	0.144	0.131	0.117	0.280	0.176	0.165	0.146	0.111 0.089 0.066 0.047 0.239 0.144 0.131 0.117 0.280 0.176 0.165 0.146 0.013

Beam 2

Position/Point	1	2	3	4	5	9	7	8	6	10	11	12	Center
SW	0.209	0.182	0.209 0.182 0.136 0.103 0.321 0.248 0.241 0.213 0.349 0.260 0.260 0.248	0.103	0.321	0.248	0.241	0.213	0.349	0.260	0.260	0.248	0.017
NN	0.224	0.195	0.224 0.195 0.156 0.111 0.293 0.264 0.256 0.219 0.335 0.300 0.303 0.244	0.111	0.293	0.264	0.256	0.219	0.335	0.300	0.303	0.244	0.005
SE	0.159	0.108	0.159 0.108 0.082 0.051 0.229 0.163 0.138 0.119 0.273 0.174 0.160 0.154 0.017	0.051	0.229	0.163	0.138	0.119	0.273	0.174	0.160	0.154	0.017
N.	0.203	0.161	0.203 0.161 0.100 0.065 0.330 0.211 0.174 0.156 0.303 0.214 0.198 0.194 0	0.065	0.330	0.211	0.174	0.156	0.303	0.214	0.198	0.194	0.005

Beam 3

Position/Point	-	2	3	4	2	9	7	8	6	10	11	12	11 12 Center
SW			100										
NW								and the					
SE	0.348	0.261	0.273	0.253	0.537	0.413	0.390	0.389	0.542	0.441	0.447	0.409	0.348 0.261 0.273 0.253 0.537 0.413 0.390 0.389 0.542 0.441 0.447 0.409 0.155
JE JE	0.283	0.292	0.246	0.241	0.476	0.401	0.378	0.369	0.472	0.424	0.426	0.415	0.283 0.292 0.246 0.241 0.476 0.401 0.378 0.369 0.472 0.424 0.426 0.415 0.148

Position/Point	1	2	3 4	4	5	5 6 7 8	7	8	6	9 10 11	11	12	12 Center
SW	0.244	0.244 0.209 0.174 0.152 0.411 0.274 0.254 0.236 0.346 0.292 0.302 0.283	0.174	0.152	0.411	0.274	0.254	0.236	0.346	0.292	0.302	0.283	0.106
NN	0.280	0.280 0.210 0.183 0.178 0.358 0.300 0.256 0.244 0.336 0.288 0.281 0.278	0.183	0.178	0.358	0.300	0.256	0.244	0.336	0.288	0.281	0.278	0.110
SE	0.267	0.267 0.233 0.208 0.170 0.379 0.301 0.280 0.275 0.371 0.330 0.338 0.323	0.208	0.170	0.379	0.301	0.280	0.275	0.371	0.330	0.338	0.323	0.106
N.	0.205	0.205 0.197 0.166 0.155 0.329 0.256 0.222 0.201 0.367 0.273 0.230 0.219	0.166	0.155	0.329	0.256	0.222	0.201	0.367	0.273	0.230	0.219	0.100

Date: 7/22/02 Temperature: 85 outside

Beam 1

Position/Point	-	2	3	4	2	9	7	œ	6	10	11	12	Center
SW													
NN													
SE	242.2	209.1	170.1	143.2	170.1 143.2 411.0 296.4 244.0 224.3 432.0 312.4 284.8 253.	296.4	244.0	224.3	432.0	312.4	284.8	253.1	65.3
빌	281.0 216.3 173.0 122.0 467.0 336.4 256.4 231.0 502.0 346.0 299.1 260.	216.3	173.0	122.0	467.0	336.4	256.4	231.0	502.0	346.0	299.1	260.1	56.7

Beam 2

Position/Point	_	2	က	4	2	9	7	8	6	10	11	12	Center
SW	294.4	244.8	183.1	150.3	427.0	150.3 427.0 371.5 299.6	299.6	255.	1 518.0	396.3	297.5	266.7	22.4
MΝ	293.0	238.5	189.1	153.0	409.0	353.8	289.0	255.9	572.0	392.0	361.1	301.3	45.6
SE	278.7	204.9	155.4	115.0	380.0	155.4 115.0 380.0 308.0	222.1	185.0	443.0	285.9	443.0 285.9 223.6	219.9	22.4
NE	322.8	236.1	154.6 110.2 415.0 290.4	110.2	415.0	290.4	343.7	198.0 466.0 308.8 265.4	466.0	308.8	**	243.8	45.6

Position/Point	7	2	က	4	2	9	7	∞	6	10	11	12	Center
SW													
NN													
SE	360.0	239.5	239.5 232.6	219.2 520.0 408.0 331.1	520.0	408.0	331.1	327.0	509.0	327.0 509.0 395.6 372.1		339.1	129.3
핃	306.3	280.2	215.4	213.2	485.0	407.5	353.3	358.1	505.0	280.2 215.4 213.2 485.0 407.5 353.3 358.1 505.0 448.0 406.0 415.0	406.0	415.0	0 101.0

Position/Point	-	2	3 4	4	2	5 6 7		8 9 10 11 12	6	10	11	12	Center
SW	330.0	330.0 264.0 214.2 185.7 486.0 347.1 305.8 284.3 527.0 365.5 369.1 338.1 104.5	214.2	185.7	486.0	347.1	305.8	284.3	527.0	365.5	369.1	338.1	104.5
NW	331.0	215.7	196.6	191.6	470.0	346.0	289.2	274.5	4007	355.0	322.1	301.4	331.0 215.7 196.6 191.6 470.0 346.0 289.2 274.5 400.4 355.0 322.1 301.4 121.0
SE	310.9	238.4	192.6	183.1	396.0	281.5	264.0	286.9	440.0	292.4	303.0	312.3	310.9 238.4 192.6 183.1 396.0 281.5 264.0 286.9 440.0 292.4 303.0 312.3 104.5
NE NE	309.4	226.5	190.4	174.8	444.0	314.9	266.8	269.7	476.0	355.0	283.2	274.0	309.4 226.5 190.4 174.8 444.0 314.9 266.8 269.7 476.0 355.0 283.2 274.0 121.0

Date: 9/17/02 Temperature: 70-80's (outside)

Beam 1

Position/Point 1 2 3 4 5 6 7 8 9 10 11 12 Ce SW NW SE 138.0 79.6 46.2 20.0 237.5 157.0 111.5 99.9 296.0 184.6 121.1 105.8 -3 NE 146.1 75.1 43.0 19.0 235.1 158.0 143.9 87.4 255.0 153.3 136.5 112.9 -5			-		***************************************									Designation of the latest designation of the
/ / 138.0 79.6 46.2 20.0 237.5 157.0 111.5 99.9 296.0 184.6 121.1 105.8 146.1 75.1 43.0 19.0 235.1 158.0 143.9 87.4 255.0 153.3 136.5 112.9	Position/Point	1	2	3	4	2	9	7	œ	6	10	7	12	Center
J 138.0 79.6 46.2 20.0 237.5 157.0 111.5 99.9 296.0 184.6 121.1 105.8 146.1 75.1 43.0 19.0 235.1 158.0 143.9 87.4 255.0 153.3 136.5 112.9	SW							100						
138.0 79.6 46.2 20.0 237.5 157.0 111.5 99.9 296.0 184.6 121.1 105.8 146.1 75.1 43.0 19.0 235.1 158.0 143.9 87.4 255.0 153.3 136.5 112.9	NN	April 1												
NE 146.1 75.1 43.0 19.0 235.1 158.0 143.9 87.4 255.0 153.3 136.5 112.9 -5	SE	138.0		46.2	20.0	237.5	157.0	111.5	99.9	296.0	184.6	121.1	105.8	-35.0
	¥	146.1	75.1	43.0	19.0	235.1	158.0	143.9	87.4	255.0	153.3	136.5	112.9	-50.0

Beam 2

Position/Point	-	2	3	4	5	9	7	8	6	10	11	12	Center
SW	275.5	192.0	113.6	0.99	359.6	301.8	301.8 216.6 159.5	159.5	468.0 344.1	344.1	220.3	168.4	-44.0
NN.	221.0	180.0	99.5	60.5	324.4 289.1		203.7 165.6 374.5	165.6	374.5	310.4	240.5 1	193.2	-44.3
SE	204.1	132.5	70.0	24.5	248.0	205.7	248.0 205.7 112.9	94.2	285.4	207.2	207.2 143.5 127.0	127.0	-44.0
밀	219.1	160.9	66.7	42.2	263.4	178.1	42.2 263.4 178.1 130.4 109.3 325.5 177.6 132.1	109.3	325.5	177.6	132.1	112.6	-44.3

Beam 3

Position/Point	-	2	3	3 4	2	9	7	8	6	10	11	12	11 12 Center
SW					Marine Control								
NN.													
SE	293.7	204.0	166.0	138.0	363.7	295.4	255.0	254.9	350.3	293.7 204.0 166.0 138.0 363.7 295.4 255.0 254.9 350.3 305.4 274.7 232.9 26.8	274.7	232.9	26.8
빌	258.2	245.3	143.1	148.4	419.0	362.3	309.4	306.5	421.0	258.2 245.3 143.1 148.4 419.0 362.3 309.4 306.5 421.0 450.0 376.3 393.0 45.0	376.3	393.0	45.0

Position/Point	-	0	6	4	5	5 6 7 7	7	∞	6	9 10 11 12	11	12	Center
		1	,		,	,		,	,				-
SW	288.1	255.0 153.0 107.5 309.4 276.6 223.3 187.9 301.8 291.5 268.0 223.0	153.0	107.5	309.4	276.6	223.3	187.9	301.8	291.5	268.0	223.0	33.3
MM	282.3	282.3 181.5 153.1 113.3 330.7 253.0 217.4 183.6 312.7 296.6 232.5 207.1	153.1	113.3	330.7	253.0	217.4	183.6	312.7	296.6	232.5	207.1	31.5
SE	163.4	163.4 130.0 77.2	77.2	38.0	208.4	38.0 208.4 157.5 129.7 141.1 145.1 160.6 228.8 177.5	129.7	141.1	145.1	160.6	228.8	177.5	33.3
핃	141.3	141.3 122.3 57.9 42.3 189.3 140.5 124.0 140.2 224.7 186.1 129.0 126.6 31.5	57.9	42.3	189.3	140.5	124.0	140.2	224.7	186.1	129.0	126.6	31.5

Date: 10/29/03 Temperature: 40 (outside)

Beam 1

Position/Point	_	2	3	4	5	9	7	8	6	10	11	12	Center
SW													
NW													
SE 12	21.2	74.8	11.3	-32.0	186.6	103.4	79.9	71.3	238.6	121.2 74.8 11.3 -32.0 186.6 103.4 79.9 71.3 238.6 172.0 76.2	76.2	61.1	-93.0
NE 13	35.7	84.5	3.9	-43.8	165.6	150.4	109.1	50.5	204.1	152.6	92.3	55.7	135.7 84.5 3.9 -43.8 165.6 150.4 109.1 50.5 204.1 152.6 92.3 55.7 -101.1

Beam 2

Position/Point		2	3	4	2	9	7	8	6	10	11	12	Center
SW	187.0	173.0	86.2	41.9		258.7 230.6	163.1	119.0	376.6	258.4	156.7	126.5	-45.3
NW	197.5	162.2	79.6	43.7	249.5	250.4	158.5	111.6	158.5 111.6 272.5	232.7	159.9	121.4	-36.7
SE	312.8	262.8	120.9	48.7	343.0	252.3	162.8	145.1	410.0	308.6	205.9	191.6	-45.3
JN	281.6	240.6	115.0	56.0	330.7	227.5 172.8 143.5	172.8	143.5	366.4	292.8 172.7	172.7	148.3	-36.7

Beam 3

Position/Point	1	2	3	4	5	9	7	8	6	10	11	12	11 12 Center
SW													
NW													
SE	265.0	265.0 187.7 116.8 93.0 390.2 325.9 253.0 234.6 268.5 333.9 336.1 217.0	116.8	93.0	390.2	325.9	253.0	234.6	268.5	333.9	336.1	217.0	-5.0
N.	283.8	283.8 247.7 163.2 130.7 429.0 397.5 334.5 316.0 462.0 471.0 437.0 389.2	163.2	130.7	429.0	397.5	334.5	316.0	462.0	471.0	437.0	389.2	18.0

Position/Point	-	2	3	4	5	9	7 8	80	6	9 10	11	12	Center
SW	194.5	194.5 184.6 108.3 68.1	108.3	68.1	246.0	246.0 233.4 180.6 142.0 244.5 228.5 194.1	180.6	142.0	244.5	228.5	194.1	190.6	-35.5
NN	204.5	204.5 141.2	94.3 65.4	65.4	277.4	277.4 234.3 162.4 133.4 270.4 267.4 193.5 143.5	162.4	133.4	270.4	267.4	193.5	143.5	-23.0
SE	6.07	61.7	21.0	-1.0	153.7	153.7 114.8 74.5 80.7	74.5	80.7	154.5	154.5 126.7 96.4 89.5	96.4	89.5	-35.5
N.	6'06	77.2 20.4	20.4		182.8	5.0 182.8 98.2	82.4	103.9	186.3	82.4 103.9 186.3 164.9 94.3 81.7	94.3	81.7	-23.0

Half-Cell Potential Measurements Date: 3/25/03 Temperature: 55 outside

Position/Point	-	2	3	4	2	9	7	ω	6	10	11	12	Center
SW	265.7	245.5	208.8	27.1	302.9	266.7	235.1	209.7	308.5	275.0	254.3	216.8	-10.6
NA.	277.0	292.0	219.2	101.5	358.0	272.6	255.2	203.7	337.7	270.4	249.5	219.3	-12.3
SE	495.0	398.2	287.9	246.1	533.0	505.0	475.0	397.0	541.0	525.0	515.0	449.0	-10.6
NE	411.0	335.2	289.8	232.3	391.7	462.0	425.0	428.0	485.0	488.0	483.0	459.0	-12.3

Date:

5/5/03 50 outside Temperature:

Beam 2

Position/Point	+	2	3	4	5	9	7	8	6	10	11	12	Center
MS	336.1	295.4	250.5	212.0	414.0	351.7	298.1	264.2	434.0	361.5	309.6	271.5	-34.4
MN	336.6	319.6	247.6	117.2	405.7	348.7	298.7	268.0	451.0	369.5	310.7	276.5	-32.2
SE	519.0	428.0	321.7	255.3	540.0	510.0	479.0	393.1	556.0	524.0	511.0	486.0	-34.4
NE	453.0	395.9	312.7	278.7	462.0	457.0	445.0	417.0	510.0	511.0	493.0	445.0	-32.2

Position/Point	5
Beam 1 (coating)	207.0
Beam 3 (sealer)	426.0
Beam 5 (polymer)	-240.0
Beam 5 (FRP)	-320.0

Measurement with Plastic under electrode = 0

Half-Cell Potential Measurements Date: 12/21/03

								The second second					
Position/Point	-	2	3	4	9	9	7	8	6	10	11	12	Center
SW	430.0	430.0 350.0 319.0 259.0 433.0 334.0 297.0 240.0 406.0 371.0 315.0 268.0	319.0	259.0	433.0	334.0	297.0	240.0	406.0	371.0	315.0	268.0	-107.0
MN	525.0	525.0 397.0 345.0 279.0 497.0 415.0 346.0 262.0 418.0 388.0 348.0 326.0	345.0	279.0	497.0	415.0	346.0	262.0	418.0	388.0	348.0	326.0	-133.0
SE	532.0	532.0 433.0 346.0 293.0 489.0 481.0 432.0 400.0 476.0 501.0 516.0	346.0	293.0	489.0	481.0	432.0	400.0	476.0	501.0	516.0	441.0	-107.0
핒	503.0	503.0 431.0 357.0 294.0 449.0 453.0 413.0 353.0 432.0 464.0 450.0 401.0	357.0	294.0	449.0	453.0	413.0	353.0	432.0	464.0	450.0	0 401.0	-133.0

Contours for 4-11-2002 Measurements

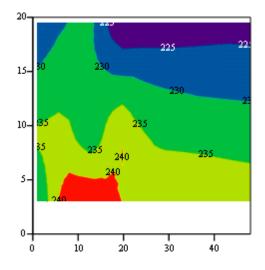


Figure F1. Beam 1: Southeast End

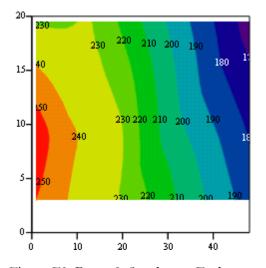


Figure F3. Beam 2: Southwest End

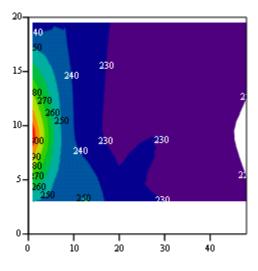


Figure F2. Beam 1: Northeast End

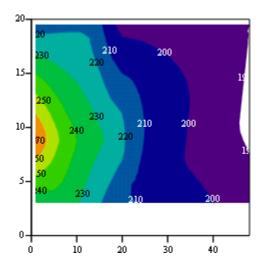


Figure F4. Beam 2: Northwest End

Contours for 4-11-2002 Measurements

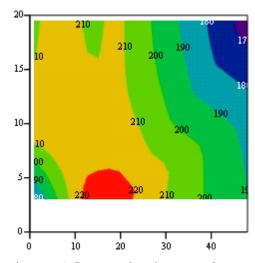


Figure F5. Beam 2: Southeast End

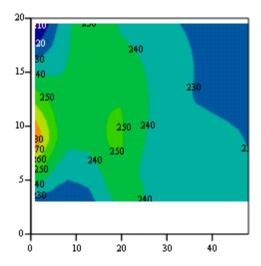


Figure F7. Beam 3: Southeast End

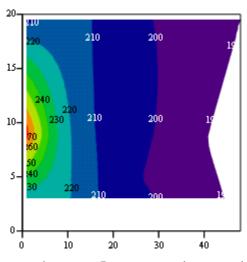


Figure F6. Beam 2: Northeast End

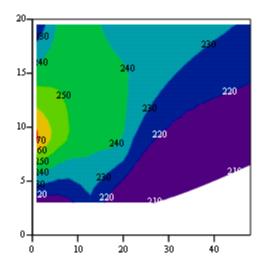


Figure F8. Beam 3: Northeast End

Contours for 4-11-2002 Measurements

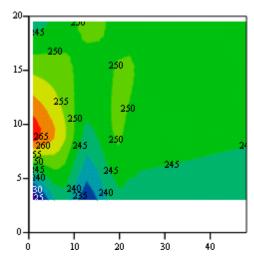


Figure F9. Beam 4: Southwest End

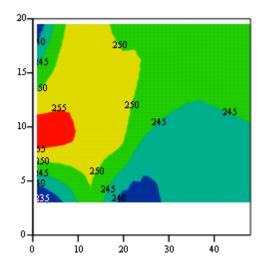


Figure F11. Beam 4: Southeast End

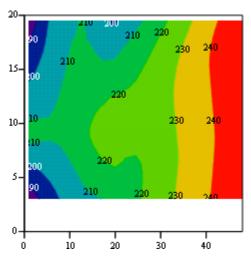


Figure F10. Beam 4: Northwest End

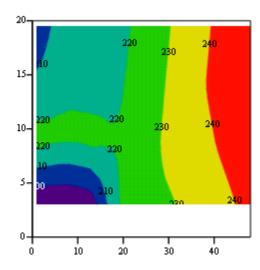


Figure F12. Beam 4: Northeast End

Contours for 5-29-2002 Measurements

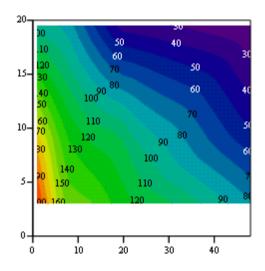


Figure F13. Beam 1: Southeast End

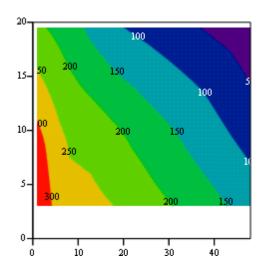


Figure F15. Beam 2: Southwest End

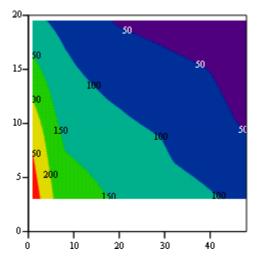


Figure F14. Beam 1: Northeast End

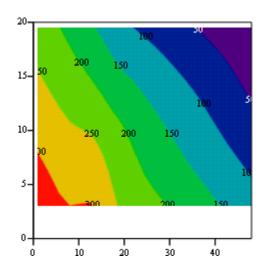


Figure F16. Beam 2: Northwest End

Contours for 5-29-2002 Measurements

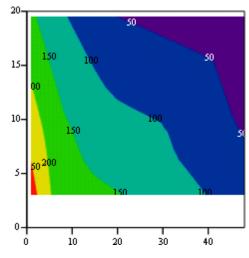


Figure F17. Beam 2: Southeast End

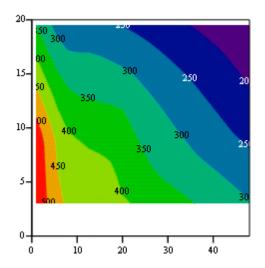


Figure F19. Beam 3: Southeast End

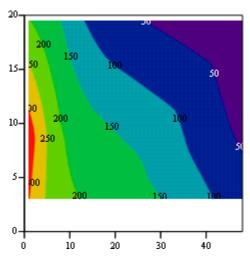


Figure F18. Beam 2: Northeast End

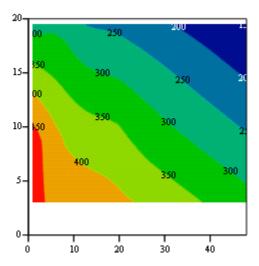


Figure F20. Beam 3: Northeast End

Contours for 5-29-2002 Measurements

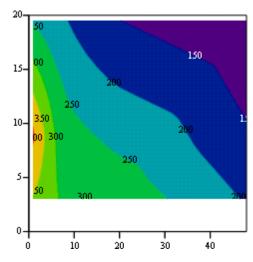


Figure F21. Beam 4: Southwest End

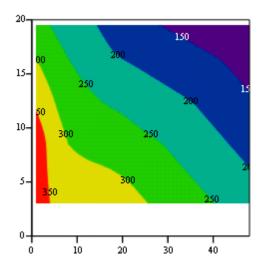


Figure F23. Beam 4: Southeast End

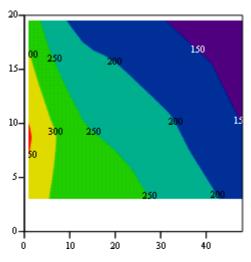


Figure F22. Beam 4: Northwest End

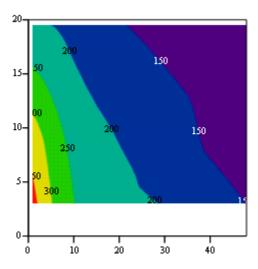


Figure F24. Beam 4: Northeast End

Contours for 7-22-2002 Measurements

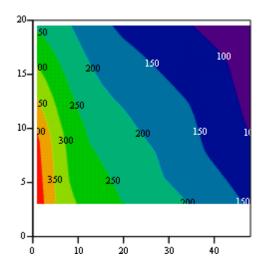


Figure F25. Beam 1: Southeast End

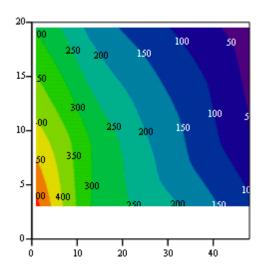


Figure F27. Beam 2: Southwest End

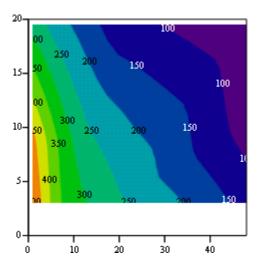


Figure F26. Beam 1: Northeast End

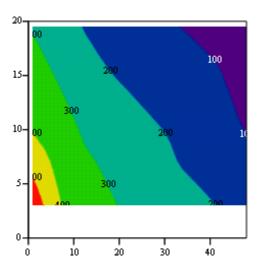


Figure F28. Beam 2: Northwest End

Contours for 7-22-2002 Measurements

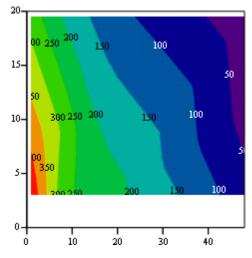


Figure F29. Beam 2: Southeast End

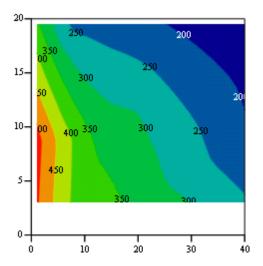


Figure F31. Beam 3: Southeast End

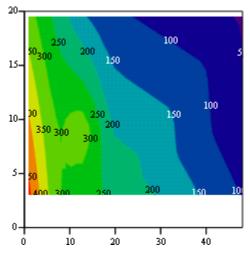


Figure F30. Beam 2: Northeast End

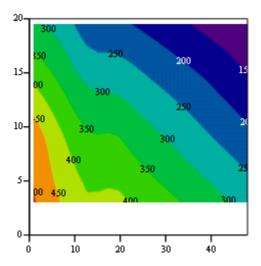


Figure F32. Beam 3: Northeast End

Contours for 7-22-2002 Measurements

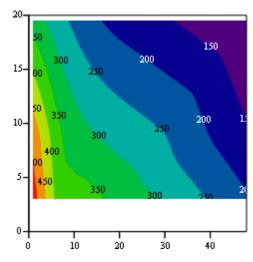


Figure F33. Beam 4: Southwest End

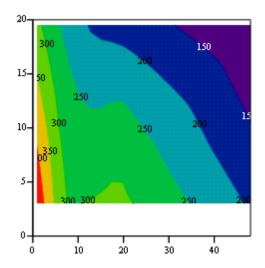


Figure F35. Beam 4: Southeast End

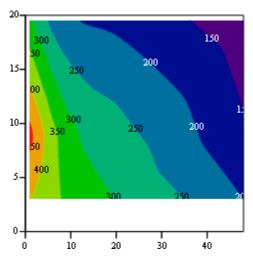


Figure F34. Beam 4: Northwest End

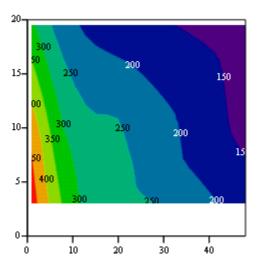


Figure F36. Beam 4: Northeast End

Contours for 9-17-2002 Measurements

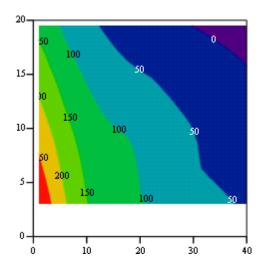


Figure F37. Beam 1: Southeast End

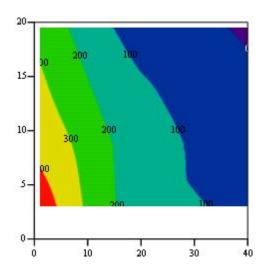


Figure F39. Beam 2: Southwest End

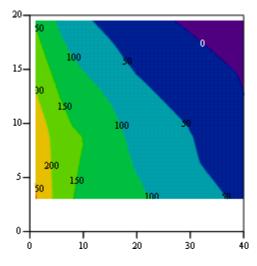


Figure F38. Beam 1: Northeast End

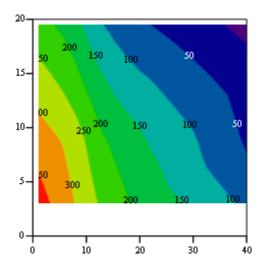


Figure F40. Beam 2: Northwest End

Contours for 9-17-2002 Measurements

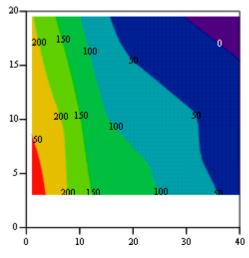


Figure F41. Beam 2: Southeast End

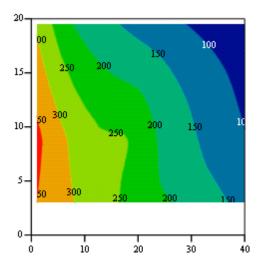


Figure F43. Beam 3: Southeast End

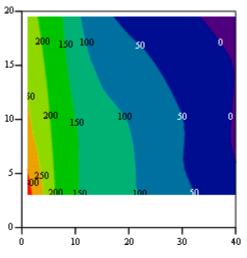


Figure F42. Beam 2: Northeast End

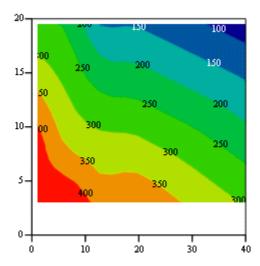


Figure F44. Beam 3: Northeast End

Contours for 9-17-2002 Measurements

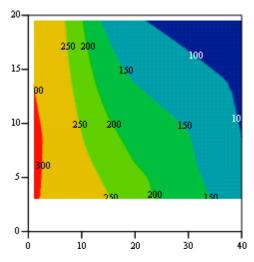


Figure F45. Beam 4: Southwest End

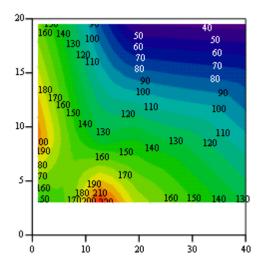


Figure F47. Beam 4: Southeast End

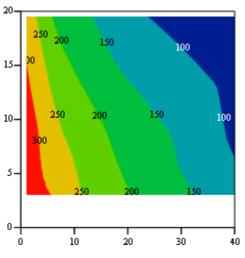


Figure F46. Beam 4: Northwest End

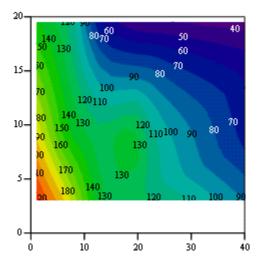


Figure F48. Beam 4: Northeast End

Contours for 10-29-2002 Measurements

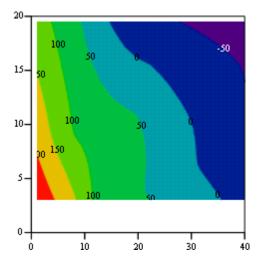


Figure F49. Beam 1: Southeast End

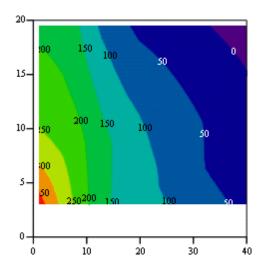


Figure F51. Beam 2: Southwest End

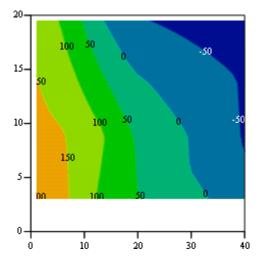


Figure F50. Beam 1: Northeast End

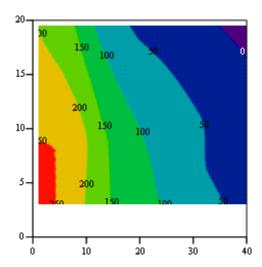


Figure F52. Beam 2: Northwest End

Contours for 10-29-2002 Measurements

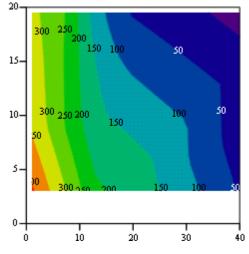


Figure F53. Beam 2: Southeast End

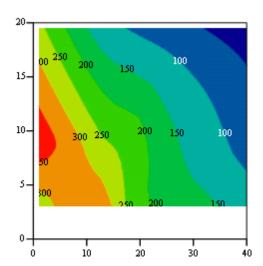


Figure F55. Beam 3: Southeast End

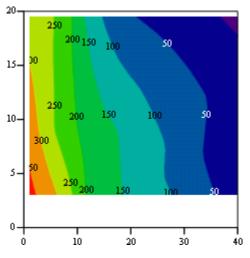


Figure F54. Beam 2: Northeast End

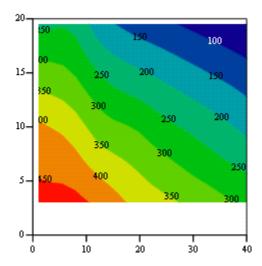


Figure F56. Beam 3: Northeast End

Contours for 10-29-2002 Measurements

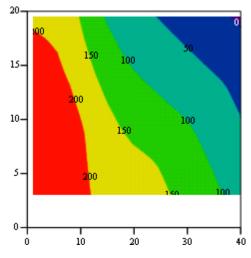


Figure F57. Beam 4: Southwest End

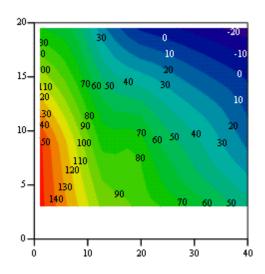


Figure F59. Beam 4: Southeast End

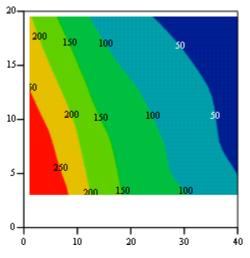


Figure F58. Beam 4: Northwest End

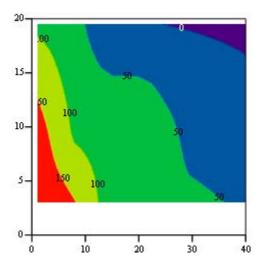


Figure F60. Beam 4: Northeast End

Contours for 3-25-2003 Measurements

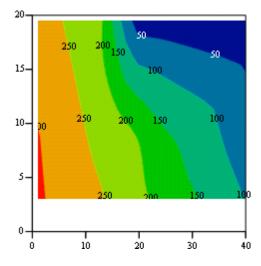


Figure F61. Beam 2: Southwest End

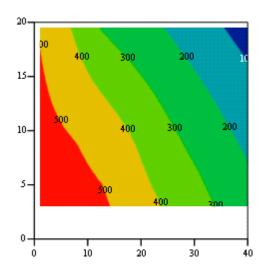


Figure F63. Beam 2: Southeast End

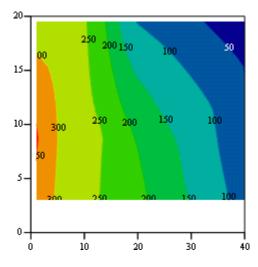


Figure F62. Beam 2: Northwest End

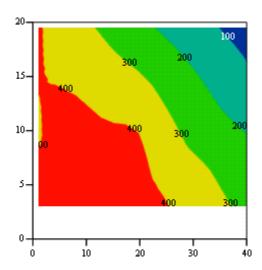


Figure F64. Beam 2: Northeast End

Contours for 5-5-2003 Measurements

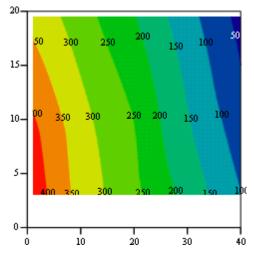


Figure F65. Beam 2: Southwest End

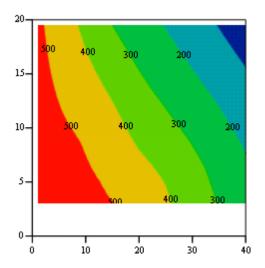


Figure F67. Beam 2: Southeast End

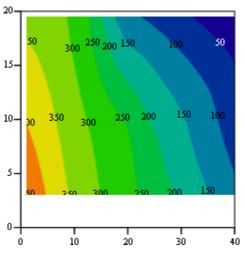


Figure F66. Beam 2: Northwest End

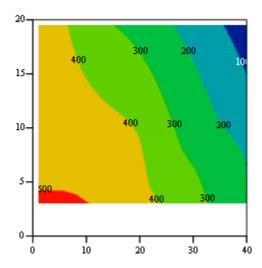


Figure F68. Beam 2: Northeast End

Contours for 12-21-2003 Measurements

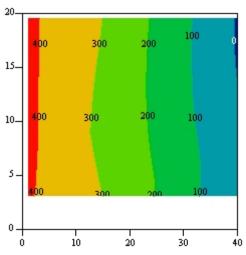


Figure F69. Beam 2: Southwest End

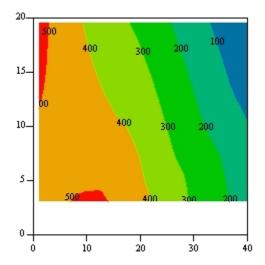


Figure F71. Beam 2: Southeast End

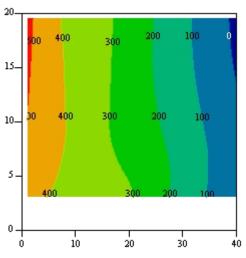


Figure F70. Beam 2: Northwest End

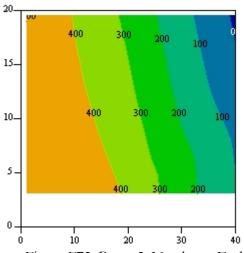


Figure F72. Beam 2: Northeast End